

LIST OF PRIOR ART CITED BY  
APPLICANT

(PTO-1449)

ATTY. DOCKET NO.  
ATI-0025APPLN. SERIAL NO.  
10/648,781APPLICANT(S)  
Youssef L. BENNANI, James T. ANDERSON,  
Jianmin WANG, and Anthony TING

CUSTOMER NO. 34610

FILING DATE  
August 27, 2003GROUP  
1614

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
SH	3,772,327	11/13/73	BROSSI et al.	260	340.5	07/27/71
	3,946,041	03/23/76	BROSSI et al.	260	340.5	08/08/73
	6,376,516 B1	04/23/02	JOSHI et al.	514	320	09/26/00
	3,905,981	09/16/75	OLOFSON et al.	260	285	10/12/73
	2,946,797	07/26/60	RUDNER	260	286	08/18/58
SH	4,087,426	05/02/78	SHAMMA et al.	260	286 R	08/16/76

## U.S. PATENT APPLICATION PUBLICATIONS

	*PATENT APPLN. PUB. NO.	*PUB. DATE	*APPLICANT	CLASS	SUBCLASS	
SH	2003/0091651 A1	05/15/03	XU	424	539	10/30/01
SH	2002/0137762 A1	09/26/02	JOSHI et al.	514	291	01/25/02

## U.S. PATENT APPLICATIONS

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## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
SH	207 324 B	03/29/93	HUNGARY			Part	
	59044382	12/03/84	JAPAN			Abst	
	62-149677	07/03/87	JAPAN			Abst	
SH	61-229880	10/14/86	JAPAN			Abst	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)

SH	Kerekes and Bognar, "Synthese des Gnoscopins (DL-Narcotin)," J. Prakt. Chem., 1971, Vol. 313, pp. 923-928.
	Hope and Robinson, "Synthetical Experiments in the Group of the isoQuinoline Alkaloids. Part IV. The Synthesis of $\beta$ -Gnoscopine," J. Chem. Soc., 1914, Vol. 105, pp. 2085-2104.
SH	Battersby and Hirst, "Concerning the Biosynthesis of Narcotine," Tetrahedron Letters, 1965, No. 11, pp. 669-673.


EXAMINER

*Sh Huang*

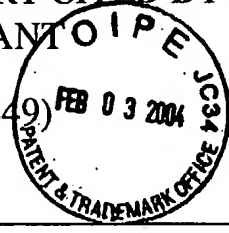
DATE CONSIDERED

*8/26/04*

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<b>LIST OF PRIOR ART CITED BY APPLICANT</b> (PTO-1449) <div style="text-align: right; margin-top: 10px;">  </div>				ATTY. DOCKET NO. <b>ATI-0025</b>		APPLN. SERIAL NO. <b>10/648,781</b>	
				APPLICANT(S) <b>Youssef L. BENNANI, James T. ANDERSON, Jianmin WANG, and Anthony TING</b>			
				CUSTOMER NO. 34610			
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EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE	
<i>SH</i>	4,704,458	11/03/87	TAKEDA et al.	546	90	01/23/85	
<i>SH</i>	4,684,732	08/04/87	TANIGUCHI et al.	546	144	03/05/85	
<i>SH</i>	5,013,556	05/07/91	WOODLE et al.	424	450	10/20/89	
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>							
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<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
<i>SH</i>	61-152686	07/11/86	JAPAN			Abst	
	61-186387	08/20/86	JAPAN			Abst	
	61-233685	10/17/86	JAPAN			Abst	
	62-096491	05/02/87	JAPAN			Abst	
	61-165327	07/26/86	JAPAN			Abst	
	0 152 090	08/21/85	EPO				
	0 161 499	11/21/85	EPO				
<i>SH</i>	0 201 359	11/12/86	EPO				
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)</b>							
<i>SH</i>	Schmidhammer and Klötzer, "New Reactions of Phthalidoisoquinoline Alkaloids," Arch. Pharm. (Weinheim), 1978, Vol. 311, pp. 664-671.						
<i>SH</i>	Möhrle and Grimm, "Structure of the Products of Reactions of Cotarnine and Hydrastinine with CH Acidic Compounds and Acetic Anhydride," Arch. Pharm. (Weinheim), 1986, Vol. 319, pp. 1018-1023.						
<i>SH</i>	Prior and Wiegrebe, "Borane Adducts of Narcotine, Hydrastine and Their Reduction Products," Arch. Pharm. (Weinheim), 1983, Vol. 316, pp. 737-746.						
<i>SH</i>	Hope and Robinson, Proc. Chem. Soc., 1910, Vol. 26, pp. 228-231.						
EXAMINER <i>SH Huang</i>				DATE CONSIDERED <i>8/26/07</i>			

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<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
<i>SM</i>	WO 99/08528	02/25/99	PCT				
<i> </i>	WO 00/00599	01/06/00	PCT				
<i> </i>	WO 83/00486	02/17/83	PCT				
<i> </i>	WO 00/64446	11/02/00	PCT				
<i>SM</i>	873,935	08/02/61	UNITED KINGDOM				
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)</b>							
<i>SM</i>	S. Safe et al., "Metameconine as a Model Compound in the Study of Aromatic Reactions," Canadian Jour. of Chemistry, December 1962, Vol. 40, No. 12, pp. 2402-2408.						
<i> </i>	Israilov et al., "Structure of Kroftaline," Chemistry of Natural Compounds, 1980, Vol. 6, pp. 851-852.						
<i> </i>	J. Marton et al., "Synthesis and Conformational Studies on some Nitro- and Aminophthalideisoquinoline Derivatives," Chemical Monthly, March 1993, Vol. 124, No. 3, pp. 291-297.						
<i> </i>	J. Kardos et al., "Inhibition of [ <sup>3</sup> H]GABA Binding to Rat Brain Synaptic Membranes by Bicuculline Related Alkaloids," Biochemical Pharmacology, 1984, Vol. 33, No. 22, pp. 3537-3545.						
<i>SM</i>	Moniot and Shamma, "The Methylene Signature of Reduced Isoquinolines: A PMR Structural Correlation," Heterocycles, 1978, Vol. 9, No. 2, pp. 145-152.						
EXAMINER <i>E. Huang</i>				DATE CONSIDERED <i>8/26/04</i>			

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						Yes	No


## OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)

JH	S. Iida et al., "Metabolic Fate of (±)-(R*)-7-Amino-4,5,6-triethoxy-3-[(R*)-5,6,7,8-tetrahydro-4-methoxy-6-methyl-1, 3-dioxolo [4,5-g] isoquinolin-5-yl] phthalide (Tritoqualine) (1) Metabolism of Tritoqualine in Rats, Mice and Dogs," Pharmacometrics, 1986, Vol. 31, No. 4, pp. 767-784.
	D. Seebach et al., "Diastereoselective Hydroxyalkylations in Position 1 of Tetrahydroisoquinolines and Synthesis of Aporphine, Protoberberine, and Phthalide Alkaloids," Helvetica Chimica Acta, 1987, Vol. 70, pp. 1357-1379.
	P. Kerekes et al., "Synthesis of Phthalideisoquinoline Alkaloids by Means of Reissert Compounds, I" Acta Chimica, 1978, Vol. 97, No. 3, pp. 353-357.
	K. Iwasa et al., "Conformations of Phthalideisoquinoline Salts and N-Oxides," Journal of Natural Products, Nov-Dec. 1987, Vol. 50, No. 6, pp. 1083-1088.
	G.T. Tan et al., "HIV-1 and HIV-2 Reverse Transcriptases: A Comparative Study of Sensitivity to Inhibition by Selected Natural Products," May 29, 1992, Vol. 185, No. 1, pp. 370-378.
	Ray and Robinson, "The Nitration of m-Meconine," J. Chem. Soc., 1925, Vol. 127, pp. 1618-1623.
JH	Perkin and Robinson, "Synthesis and Resolution of Gnoscopine (dl-Narcotine)," J. Chem. Soc., 1911, Vol. 99, pp. 775-792.

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<i>SH</i>	Hope and Robinson, "Synthetical Experiments in the Group of the isoQuinoline Alkaloids. Part I. Anhydrocotarninephthalide," J. Chem. Soc., 1911, Vol. 99, pp. 1153-1169.						
	K. Orito et al., "Synthesis of Phthalideisoquinoline and Protoberberine Alkaloids and Indolo[2,1- $\alpha$ ] isoquinolines in a Divergent Route Involving Palladium(0)-Catalyzed Carbonylation," J. Org. Chem., 1999, Vol. 64, pp. 6583-6596.						
	Wolfe and Buchwald, "Palladium-Catalyzed Amination of Aryl Triflates," J. Org. Chem., 1997, Vol. 62, pp. 1264-1267.						
	J.P. Wolfe et al., "Simple, Efficient Catalyst System for the Palladium-Catalyzed Amination of Aryl Chlorides, Bromides, and Triflates," J. Org. Chem., 2000, Vol. 65, pp. 1158-1174.						
	Moniot and Shamma, "Conversion of Berberine into Phthalideisoquinolines," J. Org. Chem., 1979, Vol. 44, No. 24, pp. 4337-4342.						
	Elango and Shamma, "A Pyrolytic Route to the Phthalide-Isoquinolines," J. Org. Chem., 1983, Vol. 48, pp. 4879-4881.						
	T. Shono et al., "Novel Zinc-Promoted Alkylation of Iminium Salts. New Synthesis of Benzylisoquinoline, Phthalidylisoquinoline, and Protoberberine Alkaloids and Related Compounds," J. Org. Chem., 1983, Vol. 48, pp. 1621-1628.						
EXAMINER <i>SH</i> <i>Huang</i>				DATE CONSIDERED <i>8/26/04</i>			

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)	
<i>Int</i>	K. Ye et al., "Opium Alkaloid Noscaphine is an Antitumor Agent that Arrests Metaphase and Induces Apoptosis in Dividing Cells," Proc. Natl. Acad. Sci. USA, February 1998, Vol. 95, No. 4, pp. 1601-1606.
	Y. Nakagawa et al., "Effect of Tritoqualine on the Proliferation of Interleukin-3 Dependent Cell Line and Sensitive Cells," Japan. J. Pharmacol., November 1987, Vol. 45, No. 3, pp. 417-424.
	Uhrin and Proksa, "Study of Conformation of $\alpha$ -Narcotine N-Oxide and Related Compounds," Collect. Czech. Chem. Commun., February 1989, Vol. 54, No. 2, pp. 498-505.
	T. Shono et al., "New Electroreductive Synthesis of Phthalide Alkaloids," Tetrahedron Letters, 1980, Vol. 21, No. 14, pp. 1351-1354.
	J. Zhou et al., "Brominated Derivatives of Noscaphine Are Potent Microtubule-interfering Agents that Perturb Mitosis and Inhibit Cell Proliferation," Mol. Pharmacol., April 2003, Vol. 63, No. 4, pp. 799-807.
	J. Molnar et al., "In Vitro Antiproliferative Effects of Tricyclic Psychopharmaceutical Agents and Synergism with Some Resistance Modifiers," Anticancer Research, Jan-Feb 1992, Vol. 12, pp. 273-280.
	J. Sam et al., "Preparation and Properties of Some Relatives of Noscaphine," Journal of Pharmaceutical Sciences, October 1968, Vol. 57, No. 10, pp. 1755-1759.
<i>Int</i>	S. Aggarwal et al., "Mass Spectral Studies on Aryl-substituted N-carbamoyl/N-thiocarbamoyl Narcotine and Related Compounds," Rapid Commun. Mass Spectrom, April 2002, Vol. 16, pp. 923-928.

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